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Derwent Record

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Derwent Title: **Heap leaching of copper ores with sulphuric acid - using alternate layers of ore and solid sodium chloride**

Original Title: ☑ SU0753922T: METHOD OF COPPER ORE PILE LEACHING

Assignee: **AS KAZA METAL ENRIC** Soviet institute

Inventor: **BEISEMBAEV B B; KATKOV Y U A; KUNAEV A M;**

Accession/ Update: **1981-28544D / 198116**

IPC Code: C22B 15/08 ;

Derwent Classes: M25;

Manual Codes: **M25-B**(Wet extraction of metal compounds from ores [general]) , **M25-G08**(Obtaining specific metals - copper)

Derwent Abstract: (SU0753922B) In heap leaching of Cu ores using NaCl and H_2SO_4, extn. of Cu and ore decrepitation are increased and leaching time is reduced by using alternate layers of ore and NaCl. The latter is used in solid form at the rate of 2.16- 3.46 tons per ton of Cu, the distance between the layers over the height of the heap being 0.3-1m. Sulphuric acid is used at a concn. of 10-12 g/litre, fed to the top of the heap.
The H_2SO_4 reacts exothermically with the NaCl, producing HCl and heating the ore lumps locally, breaking them up. Example:80 kg of ore contg. 0.37% Cu is arranged in alternate layers with NaCl; the distance between the NaCl layers is 0.7m, and the heap is sprayed at the rate of 50 litres/ton of ore with H_2SO_4 (12 g/litre).Copper extraction is 80.1-83% at an NaCl consumption of 2.16-3.24 tons/ton Cu and an H_2SO_4 consumption of 3-3.4 tons/ton Cu in a leaching time of 300 days(2 summer seasons under industrial conditions).Bul.29/7.8.80.

Family:

PDF Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
☑ SU0753922B *	1980-08-07	198116		English	C22B 15/08

Priority Number:

Application Number	Filed	Original Title
SU1978002577157	1978-02-03	METHOD OF COPPER ORE PILE LEACHING

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